



SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
23CS4L02	OOP'S THROUGH JAVA LAB	IV	CSE-DS-B	3 Periods	2025-2026	10-12-25
COURSE OUTCOMES						
1	Able to work with object oriented programming in the java programming language					
2	Able to implement classes, objects, methods, inheritance, Exception, Runtime polymorphism, user defined exceptions.					
3	Able to illustrate, exception handling mechanism, JDBC connectivity					
4	Able to work with Threads, Event Handling, packages.					
Experiment Number	Experiment					Contact Hours
1	a. Write a JAVA program to display default value of all primitive data type of JAVA b. Write a java program that display the roots of a quadratic equation $ax^2+bx=0$. Calculate the discriminate D and basing on value of D, describe the nature of root.					3
2	a. Write a JAVA program to search for an element in a given list of elements using binary search mechanism. b. Write a JAVA program to sort for an element in a given list of elements using bubble sort c. Write a JAVA program using String Buffer to delete, remove character.					3
3	a. Write a JAVA program to implement class mechanism. Create a class, methods and invoke them inside main method. b. Write a JAVA program implements method overloading. c. Write a JAVA program to implement constructor. d. Write a JAVA program to implement constructor overloading.					3
4	a. Write a JAVA program to implement Single Inheritance. b. Write a JAVA program to implement multilevel Inheritance. c. Write a JAVA program for abstract class to find areas of different shape.					3



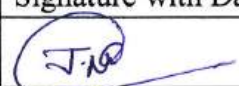
SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by
NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956,
Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada
Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

5	a. Write a JAVA program give example for "super" keyword. b. Write a JAVA program to implement Interface. What kind of Inheritance can be achieved? c. Write a JAVA program that implements Runtime polymorphism.	3
6	a. Write a JAVA program that describes exception handling mechanism. b. Write a JAVA program Illustrating Multiple catch clauses. c. Write a JAVA program for creation of Java Built-in Exceptions. d. Write a JAVA program for creation of User Defined Exception	3
7	a. Write a JAVA program that creates threads by extending Thread class. First thread display "Good Morning "every 1 sec, the second thread displays "Hello "every 2 seconds and the third display "Welcome" every 3 seconds (Repeat the same by implementing Runnable). b. Write a program illustrating is Alive and join () c. Write a Program illustrating Daemon Threads. d. Write a JAVA program Producer Consumer Problem.	3
8	a. Write a JAVA program that import and use the user defined packages. b. Without writing any code, build a GUI that display text in label and image in an ImageView (use JavaFX).	3
9	c. Build a Tip Calculator app using several JavaFX components and learn how to respond to user interactions with the GUI. a) Write a java program that connects to a database using JDBC	3
10	b) Write a java program to connect to a database using JDBC and insert values into it. c) Write a java program to connect to a database using JDBC and delete values from it	3
CUMULATIVE PROPOSED PERIODS		30

	Name	Signature with Date
i. Faculty	Mrs. J.N.D.Lakshmi	
ii. Module Coordinator	Mr.A.S.N.V.Bogesh	
iii. Programme Coordinator	Dr.RVVS Prasad	


Principal